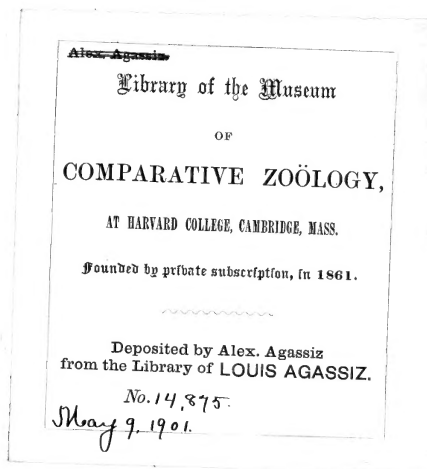
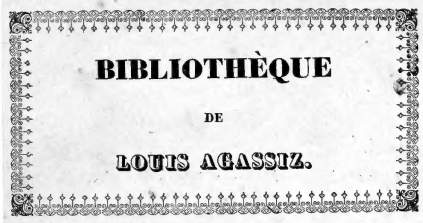


Tafeln
I
Darmstädter Museum

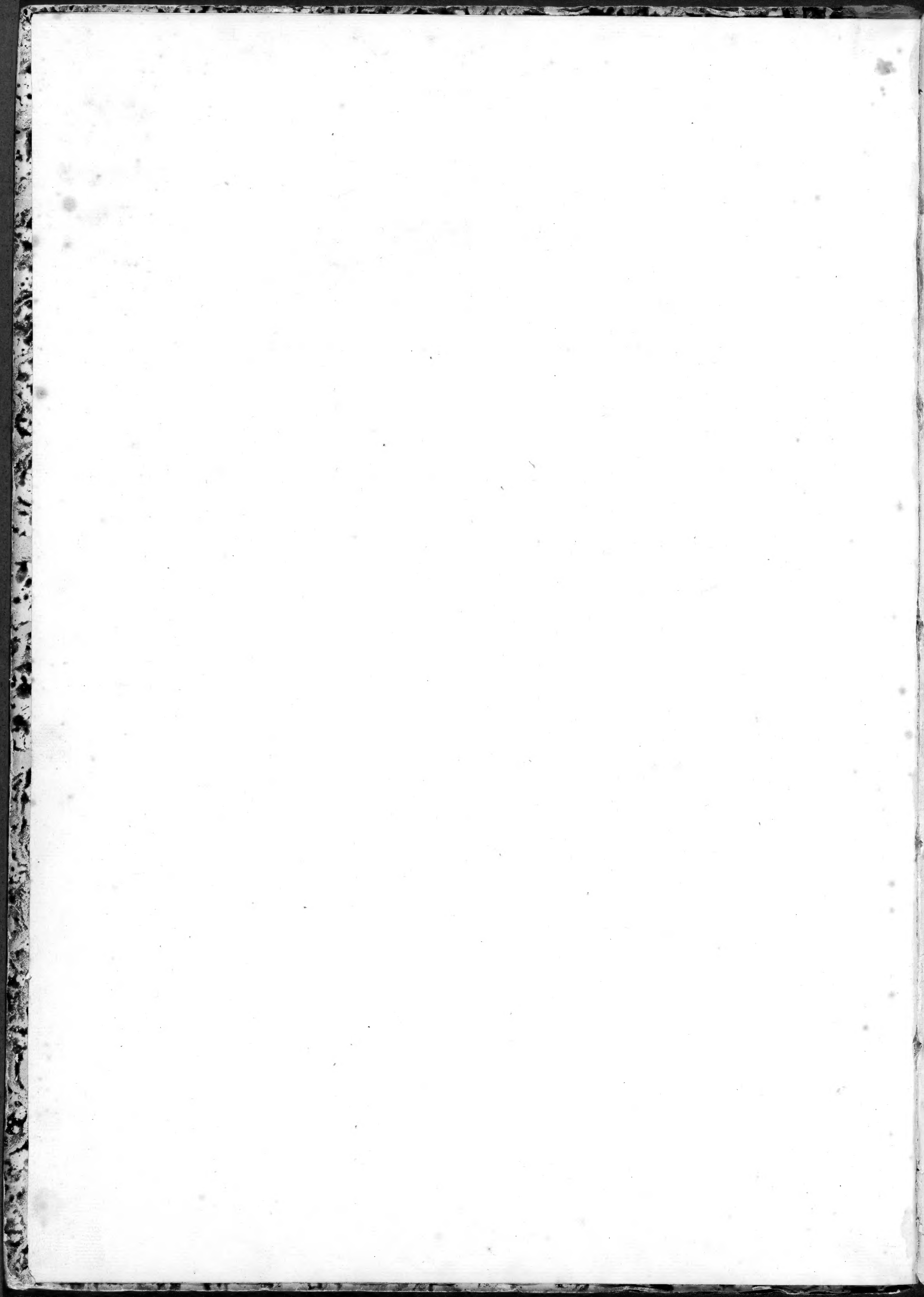
P. Ehrenberg
X-E 33F



Polygastrica

Inhalt

Tafel 1.	Monas, Uvella, Polytoma, Microglena, Glenomarm (all Monastings)	23.	27.	Cryptomonadina	
Tafel 2.	Doxococcus, Chilomonas, Boco, Euplomonas, Prorocentrum, Laguncula, Euploglena, Trachelomonas, Volvox, Pandorina	3.	19.	24.	31.
Tafel 3.	Gonium, Gynerupta, Gynera, Nodula, Eudorina, Chlamidomonas, Sphaerosira	28.	30.	31.	33.
4.	Volvox	35.	39.	61.	64.
5.	Bacterium, Vibrio, Spirochaeta, Spirillum, Spirochaeta, Closterium	67.	77.	83.	84.
6.	Closterium	90.			
7.	Asasia, Amblyopsis, Euglena, Chlorogonium	101.	103.	104.	113.
8.	Gynera, Dinobryon, Anisoba, Colacium, Distigma	123.	124.	126.	114.
9.	Diffugia, Anella, Cyphidium	130.	132.	135.	
10.	Desmidiium, Haemastrom, Pentastemon, Tessararthra, Anthidium, Anthracosmus, Pyxidicula, Gallionella	140.	142.	144.	146.
11.	Microstemon, Microtheca	154.	164.		
12.	Eustrom	160.			
13.	Navicula	173.	174.		
14.	Navicula, Coconis	173.	193.		
15.	Bacillaria, Fragillaria	195.	202.		
16.	Fragillaria, Meridion, Bothmia, Odontella	202.	207.	208.	153.
17.	Gynera, Podosphenia	210.	213.		
18.	Gomphonema	215.			
19.	Echinella, Coconema	219.	223.		
20.	Alnanthes, Gyncyclia, Striatella, Naunema, Schizonema, Aneta, Tessella	226.	233.	229.	233.
21.	Gallionella, Astrocyclus, Eustia, Coconis, Gynera, Navicula	166.	171.	189.	193.



ATLAS

VON

VIERT UND SECHZIG KUPFERTAFELN

ZU

Christian Gottfried Ehrenberg

über

Infusionshierchen

Seiner Königlichen Hoheit

FRIEDRICH WILHELM

Kronprinzen von Preussen

begutachtet.



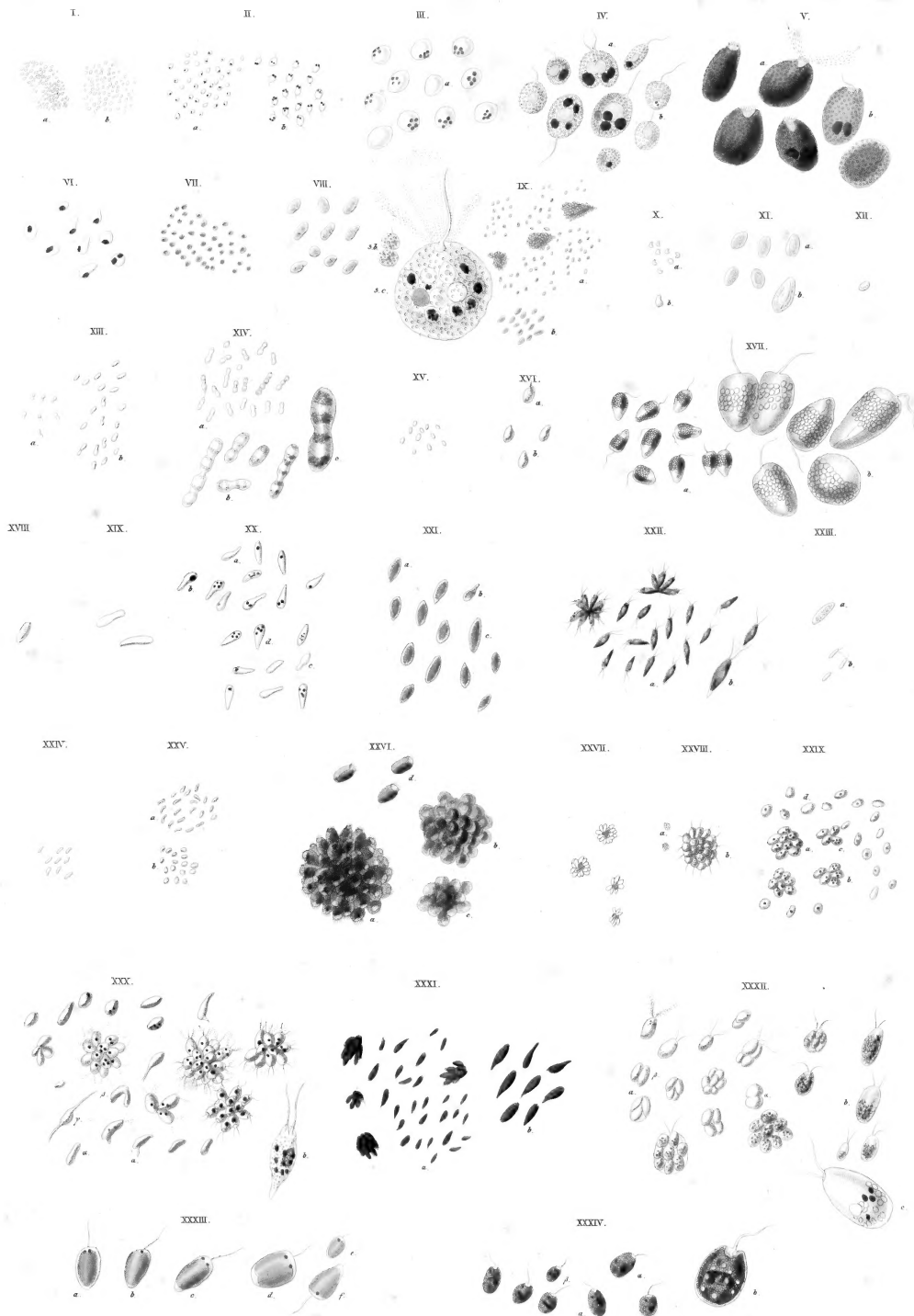
Leipzig

Verlag von Leopold Voss

Buchhändler der Universität der Wissenschaften in Leipzig

1838.

**BLANK
PAGE**



I-XXV. MONAS. XXVI-XXXI. UVELLA. XXXII. POLYTOMA. XXXIII. XXXIV. MICROGLENA.

I. *M. Grepiscutum*. 5000. 5000. II. *M. Termo*. 5000. 5000. III. *M. Guttula*. 5000. IV. *M. ovipara*. 500. 500. V. *M. grandis*. 500. VI. *M. bicolor*. 500. VII. *M. ochra*. 500. VIII. *M. erubescens*. 500. IX. *M. vinosa*. 5000. 5000. X. *M. Holpoda*. 500. XI. *M. Enchelys*. 500. XII. *M. Umbra*. 500. XIII. *M. hyalina*. 500. 500. XIV. *M. glaucens*. 500. XV. *M. ovalis*. 500. XVI. *M. Africa*. 500. XVII. *M. Punctum*. 500. XVIII. *M. cylindrica*. 500. XIX. *M. deses*. 500. XX. *M. socialis*. 500. XXI. *M. flavicans*. 500. XXII. *M. longens*. 500. 500. XXIII. *M. simplex*. 500. XXIV. *M. inanis*. 500. XXV. *M. scintillans*. 500. 500. XXVI. *U. birens*. 500. 500. XXVII. *U. Chamaemorus*. 500. XXVIII. *U. Una*. 500. XXIX. *U. Atomus*. 500. 500. XXX. *U. Glaucoma*. 500. 500. XXXI. *U. Bodo*. 500. 500. XXXII. *P. Uvella*. 500. 500. XXXIII. *M. punctifera*. 500. 500. XXXIV. *M. monadina*. 500. 500.

**BLANK
PAGE**

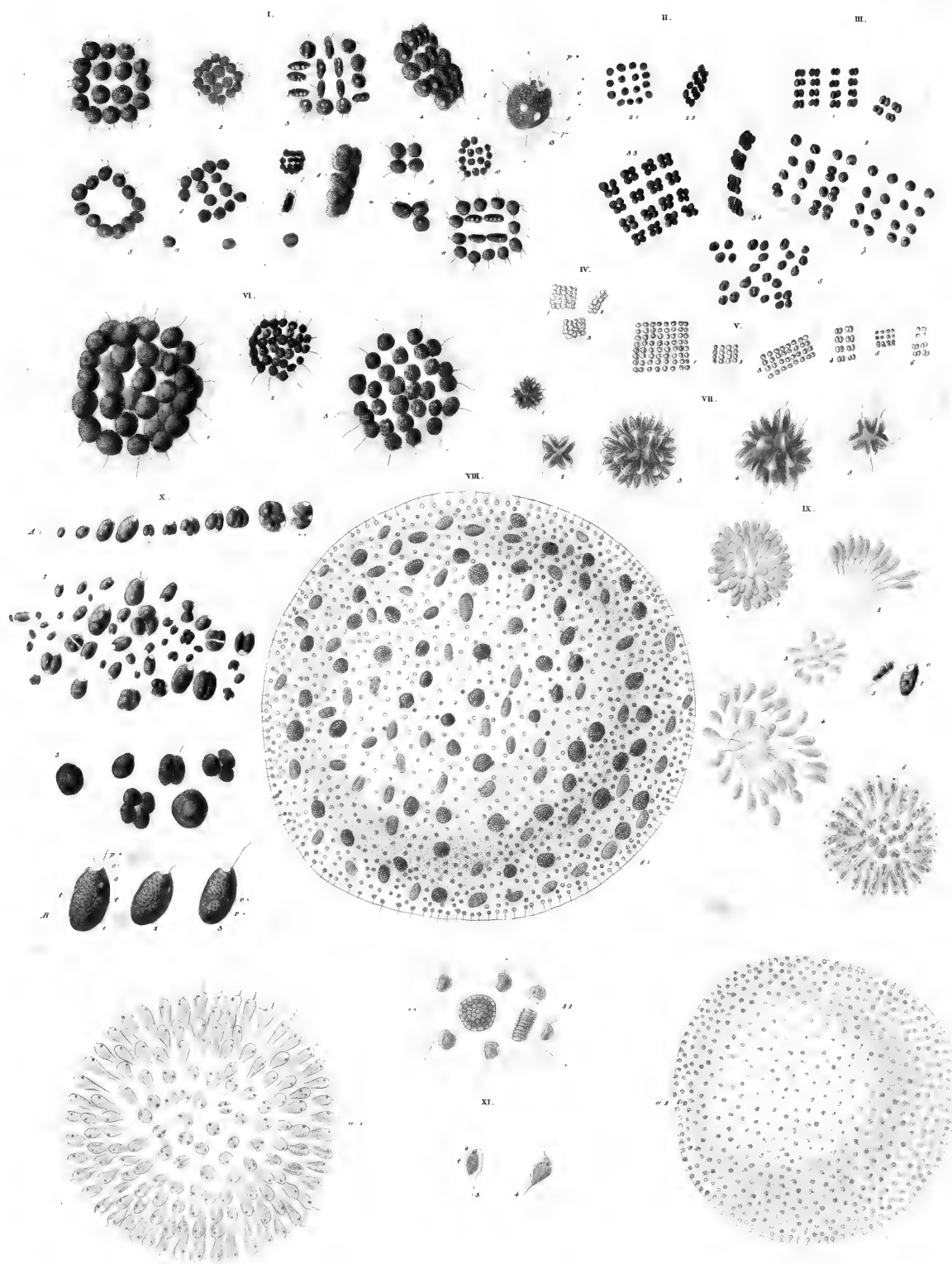


I-IV. DOXOCOCCUS. V-VII. CHILOMONAS. VIII-XV. BODO. XVI-XXX. CRYPTOMONAS. XXXI-XXXIII. PROROCENTRUM. XXXIV. LAGENELLA. XXXV-XXXVII. CRYPTOGLAENA. XXXVIII-XXX. TRACHELOMONAS. XXXI-XXXIII. GYGES. XXXIII-XXXIV. PANDORINA.

I. *D. Globulus* 1/12. II. *D. ruber* 1/44. III. *D. Pulvisculus* 1/60. IV. *D. inaequalis* 1/60. V. *C. Volvox* 1/30. VI. *C. Paramecium* 1/60. VII. *C. destruens* 1/12. VIII. *B. socialis* 1/44. IX. *B. vorticellaris* 1/60. X. *B. disty. mus* 1/60. XI. *B. saltans* 1/60. XII. *B. grandis* 1/12. XIII. *B. intestinalis* 1/44. XIV. *B. Ranarum* 1/12. XV. *B. viridis* 1/60. XVI. *C. curvata* 1/44. XVII. *C. ovata* 1/44. XVIII. *C. erosa* 1/12. XIX. *C. cylindrica* 1/12. XX. *C. glauca* 1/12. XXI. *C. fusca* 1/12. XXII. *C. lenticularis* 1/44. XXIII. *P. micans* 1/60. XXIV. *L. euchlora* 1/60. XXV. *C. conica* 1/60. XXVI. *C. pigra* 1/12. XXVII. *C. caerulea* 1/60. XXVIII. *T. nigricans* 1/44. XXIX. *T. volvocina* 1/12. XXX. *T. cylindrica* 1/44. XXXI. *G. Granatum* 1/60. XXXII. *G. bipartitus* 1/60. XXXIII. *P. Morum* 1/12. XXXIV. *P. hyalina* 1/60.

gez. v. Ehrenberg. gez. v. C. B. Weber.

**BLANK
PAGE**

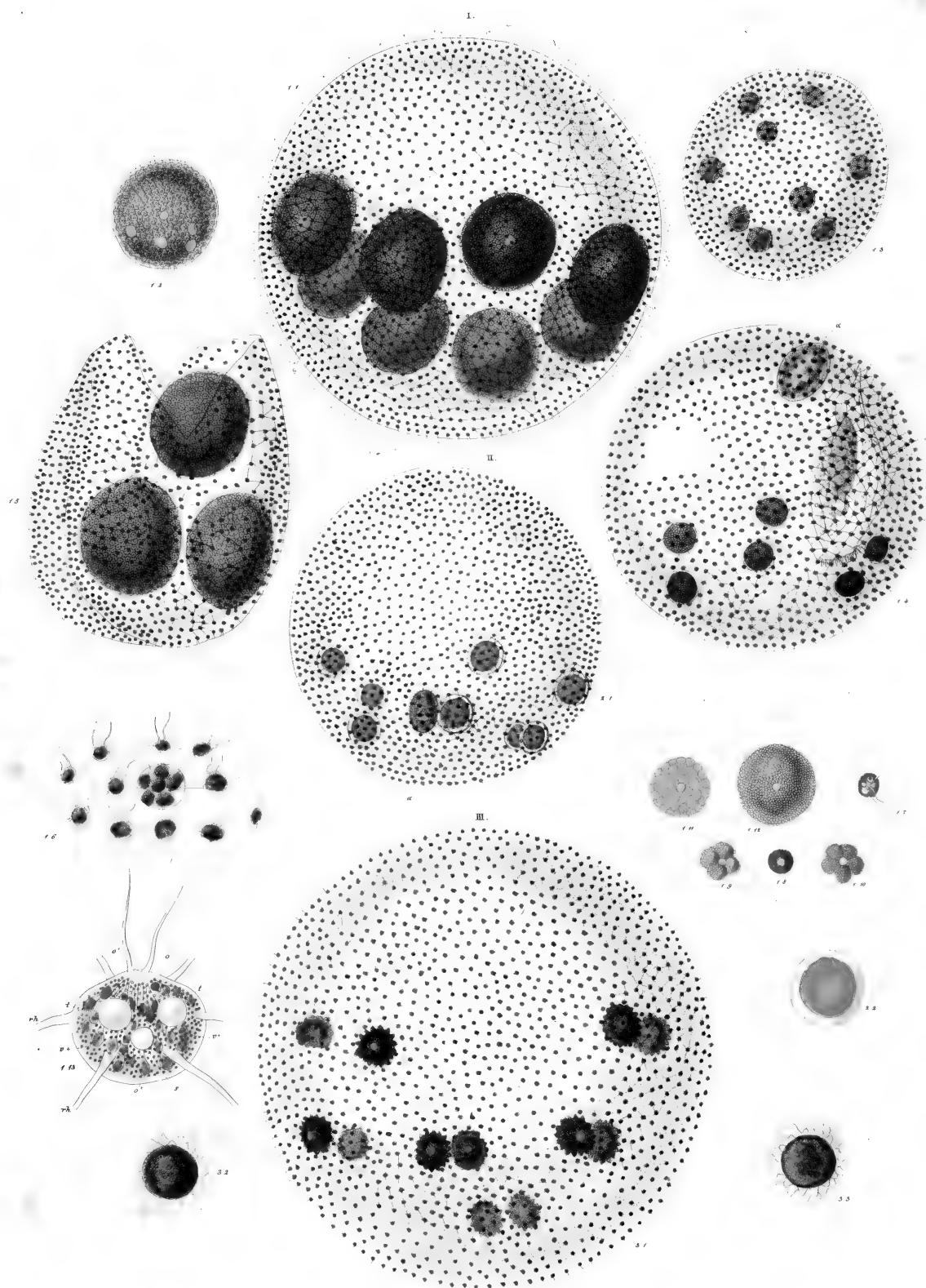


I. *GONIM*. VI. *EUDORINA*. VII. *SYNCRYP*. VIII. *SPHAEROSIRA*. IX. *SYNURA*. X. *CHLAMIDOMONAS*. XI. *UROGLENA*.

I. *G. pectorale* 1/64. II. *G. punctatum* 1/64. III. *G. tranquillum* 1/64. IV. *G. galatun* 1/64. V. *G. glaucum* 1/64. VI. *E. elegans* 1/64. VII. *SY. Volvox* 1/64. VIII. *SP. Volvox* 1/64.

IX. *S. Urella* 1/64. X. *CH. Pulvisculus* 1/64. XI. *U. Volvox* 1/64.

**BLANK
PAGE**



VOLVOX.

I. V. *Globator* - $\frac{1}{3}$ ", II. V. *aureus* - $\frac{1}{3}$ ", III. V. *stellatus* - $\frac{1}{3}$ ".

gez. v. Ehrenberg

gest v Weber.

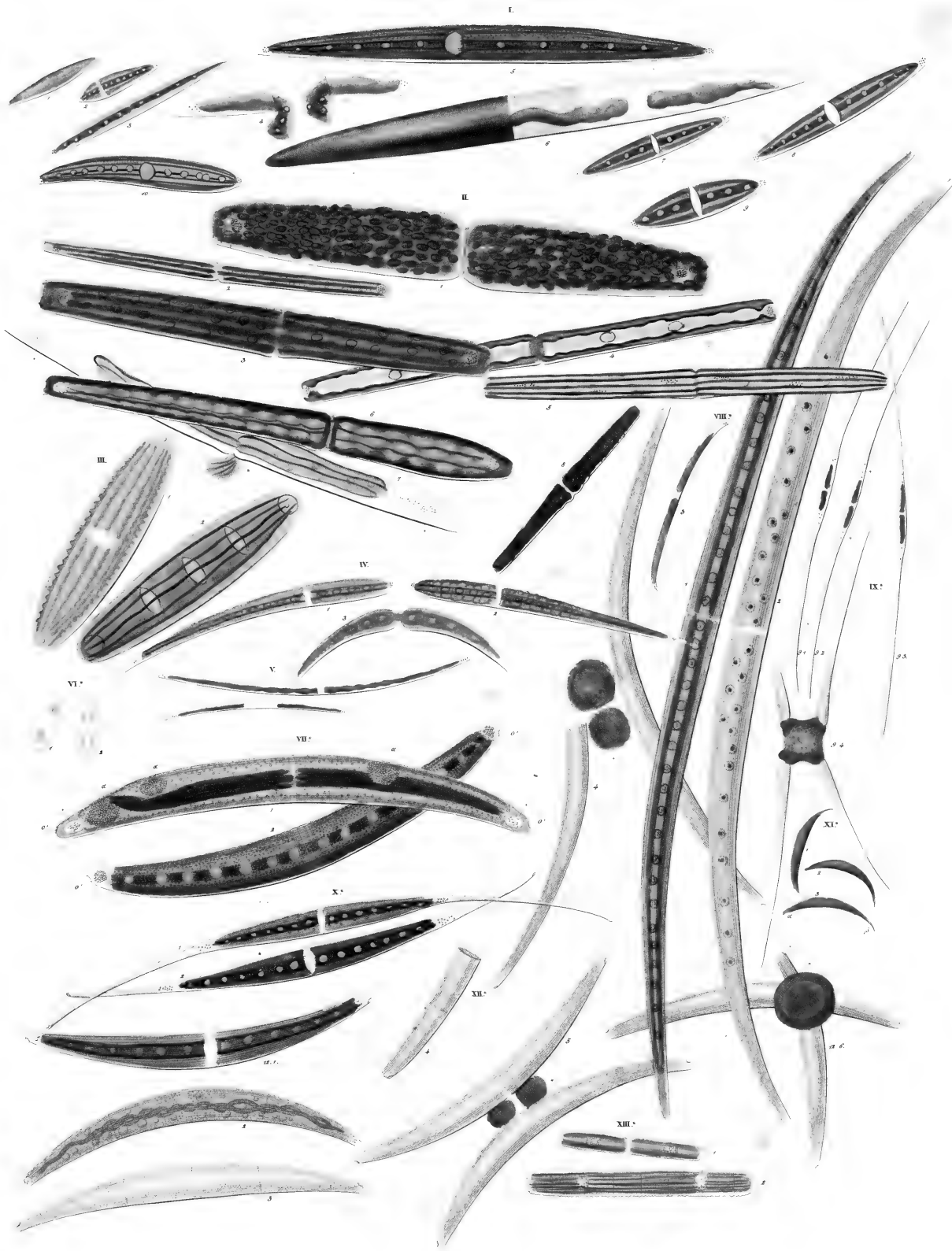
**BLANK
PAGE**



I. III. BACTERIUM. IV. IX. VIBRIO. X. SPIROCHAETA. XI. XIII. SPIRILLUM. XIV. SPIRODISCUS. XV. XVII. CLOSTERIUM.

I. *B. triloculare* - $\frac{1}{102}$ ". II. *B. Enchelys* - $\frac{1}{240}$ ". III. *B. Punctum* - $\frac{1}{355}$ ". IV. V. *Lincola* - $\frac{1}{1000}$ ". V. *V. tremulans* - $\frac{1}{488}$ ". VI. *V. subtilis* - $\frac{1}{36}$ ". VII. *V. Bagula* - $\frac{1}{96}$ ". VIII. *V. prolifer* - $\frac{1}{96}$ ". IX. *V. Bacillus* - $\frac{1}{44}$ ". X. *S. Serpens* - $\frac{1}{16}$ ". XI. *S. tenue* - $\frac{1}{24}$ ". XII. *S. Undula* - $\frac{1}{96}$ ". XIII. *S. volutans* - $\frac{1}{96}$ ". XIV. *S. fulvus* - $\frac{1}{100}$ ". XV. *C. Lunula* - $\frac{1}{4}$ ". XVI. *C. moniliferum* - $\frac{1}{10}$ ". XVII. *C. Dianae* - $\frac{1}{10}$ ".
 ges. v. Ehrenberg. ges. v. Franz.

**BLANK
PAGE**



CLOSTERIUM.

I. *C. acerosum*. 1/4. II. *C. Trabecula*. 1/4. III. *C. Digitus*. 1/10. IV. *C. attenuatum*. 1/4. V. *C. Cornu*. 1/8. VI. *C. cylindrus*. 1/30. VII. *C. turgidum*. 1/8.
 VIII. *C. lineatum*. 1/5. IX. *C. setaceum*. 1/4. X. *C. rostratum*. 1/4. XI. *C. inaequale*. 1/6. XII. *C. striolatum*. 1/10. XIII. *C. margaritaceum*. 1/8.

**BLANK
PAGE**



I. IV. ASTASIA. V. AMBLYOPHIS. VI. XVI. EUGLENA. XVII. CHLOROGONIUM.

I. *A. haematodes* $\frac{1}{16}$ " II. *A. flavicans* $\frac{1}{32}$ " III. *A. pusilla* $\frac{1}{12}$ " IV. *A. viridis* $\frac{1}{32}$ " V. *A. viridis* $\frac{1}{16}$ " VI. *E. sanguinea* $\frac{1}{40}$ " VII. *E. hyalina* $\frac{1}{24}$ " VIII. *E. deses* $\frac{1}{60}$ "
 IX. *E. viridis* $\frac{1}{32}$ " X. *E. Spirogyra* $\frac{1}{60}$ " XI. *E. Pyrum* $\frac{1}{12}$ " XII. *E. Pleuronectes* $\frac{1}{40}$ " XIII. *E. longicauda* $\frac{1}{16}$ " XIV. *E. triquetra* $\frac{1}{48}$ " XV. *E. acus* $\frac{1}{16}$ "
 XVI. *E. rostrata* $\frac{1}{40}$ " XVII. *CH. euchlorum* $\frac{1}{24}$ "

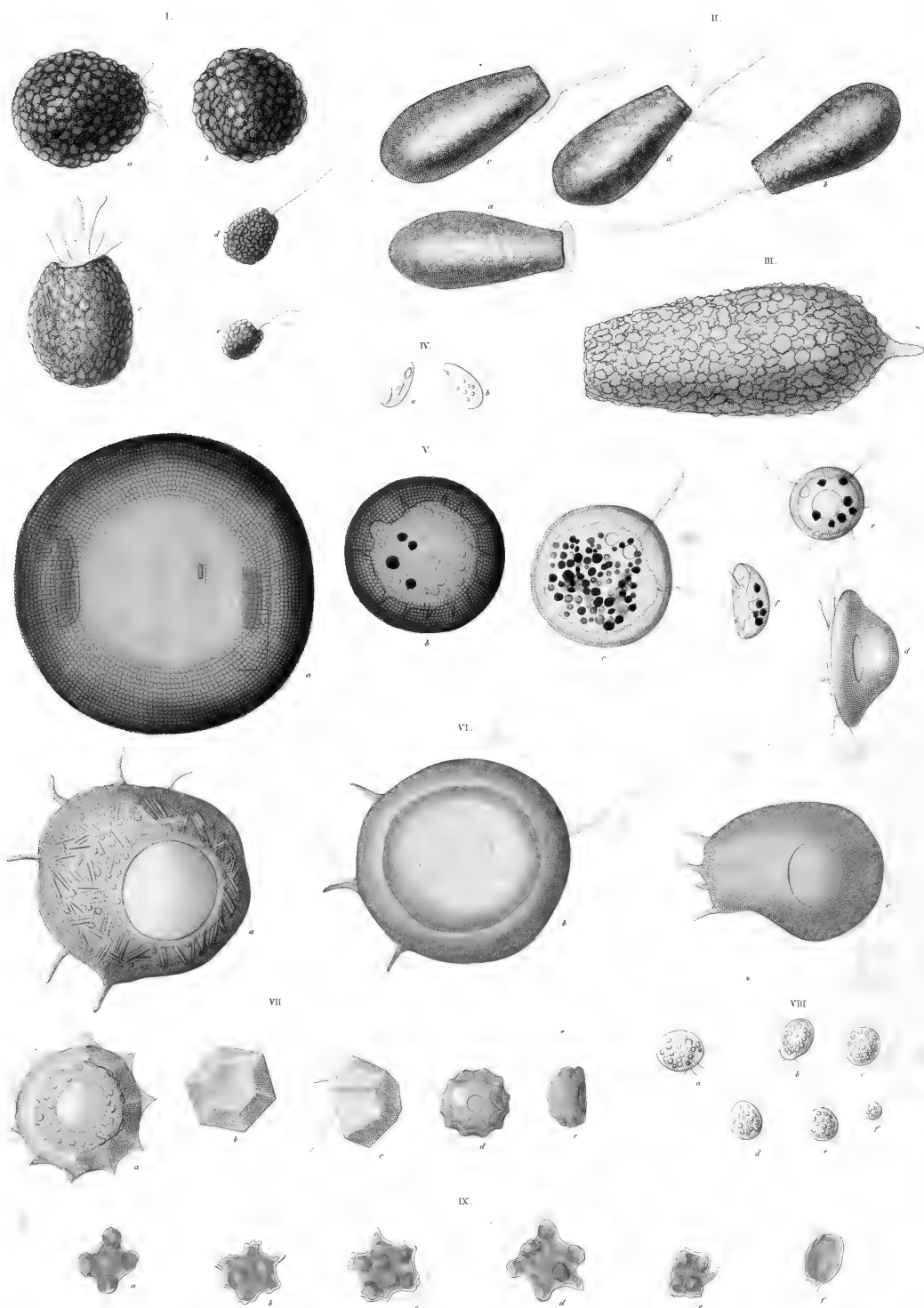
**BLANK
PAGE**



I-II. COLACIUM. III-VI. DISTIGMA. VII. EPIPYXIS. VIII. DINOBYRYON. X. AMOEBEA.

I. *C. reticulatum* 1/200. II. *C. stentorianum* 1/500. III. *D. tenuis* 1/200. IV. *D. Protus* 1/200. V. *D. viride* 1/400. VI. *D. Planaria* 1/200. VII. *E. striculus* 1/340. VIII. *D. Sertularia* 1/400. IX. *D. sociale* 1/720. X. *A. princeps* 1/60. XI. *A. ferruginea* 1/200. XII. *A. diffuens* 1/240. XIII. *A. radiosa* 1/200.

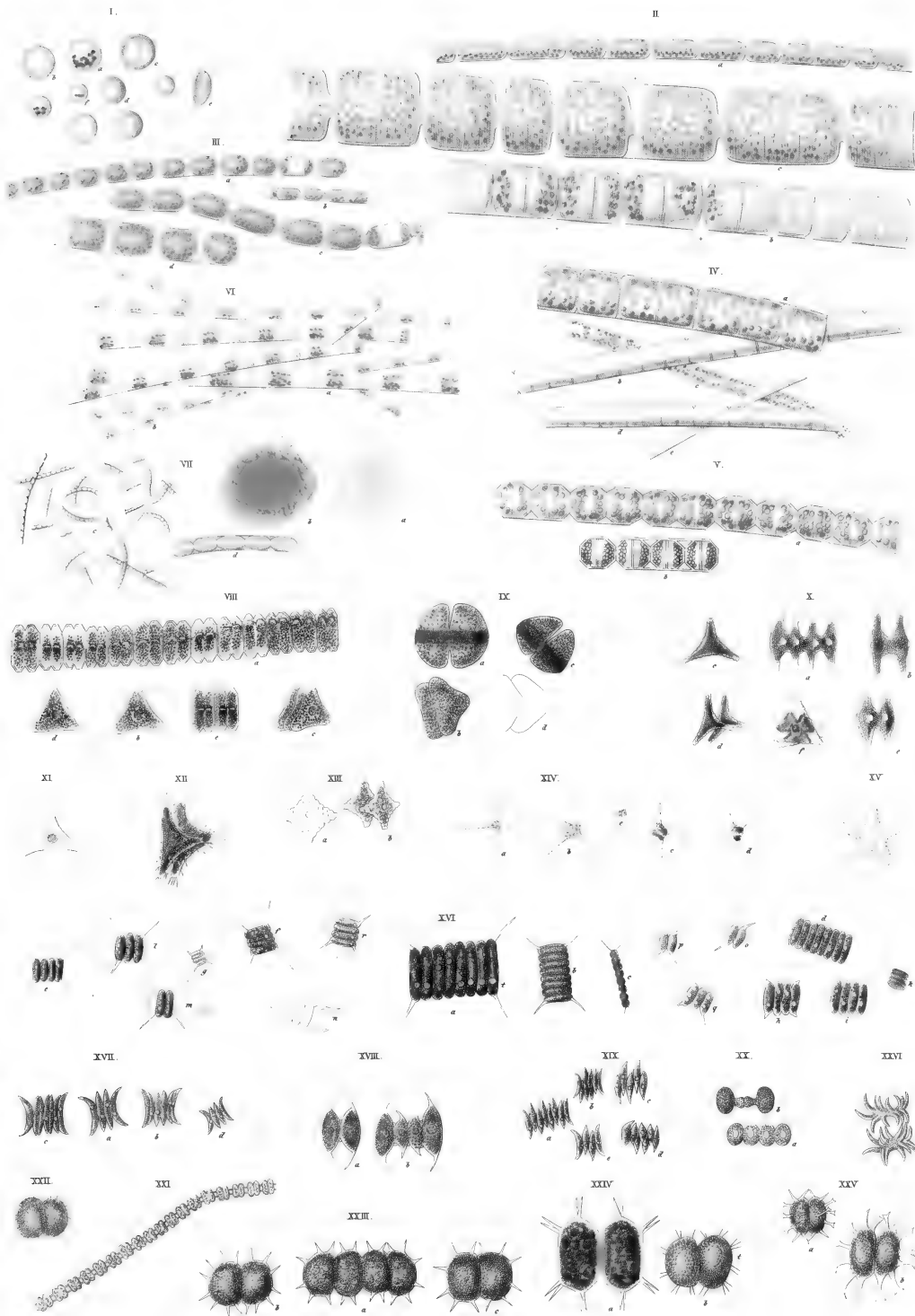
**BLANK
PAGE**



I. DIFFLUGIA. V. VII. ARCELLA. IX. CYPHIDIUM.

I. *D. proteiformis* - $\frac{1}{40}$ " II. *D. oblonga* - $\frac{1}{60}$ " III. *D. acuminata* - $\frac{1}{40}$ " IV. *D. Enchelys* - $\frac{1}{40}$ " V. *A. vulgaris* - $\frac{1}{10}$ "
 VI. *A. aculeata* - $\frac{1}{60}$ " VII. *A. dentata* - $\frac{1}{50}$ " VIII. *A. hyalina* - $\frac{1}{40}$ " IX. *C. aureolum* - $\frac{1}{50}$ "

**BLANK
PAGE**



I. PYXIDICULA. II. VII. GAILLONELLA. VIII. XII. DESMIDIUM. XIII. XIV. STAUSTRUM.

XV. PENTASTERIAS. XVI. XIX. ARTHRODESMUS. XX. TESSARARTHRA. XXII. XXVI. XANTHIDIUM.

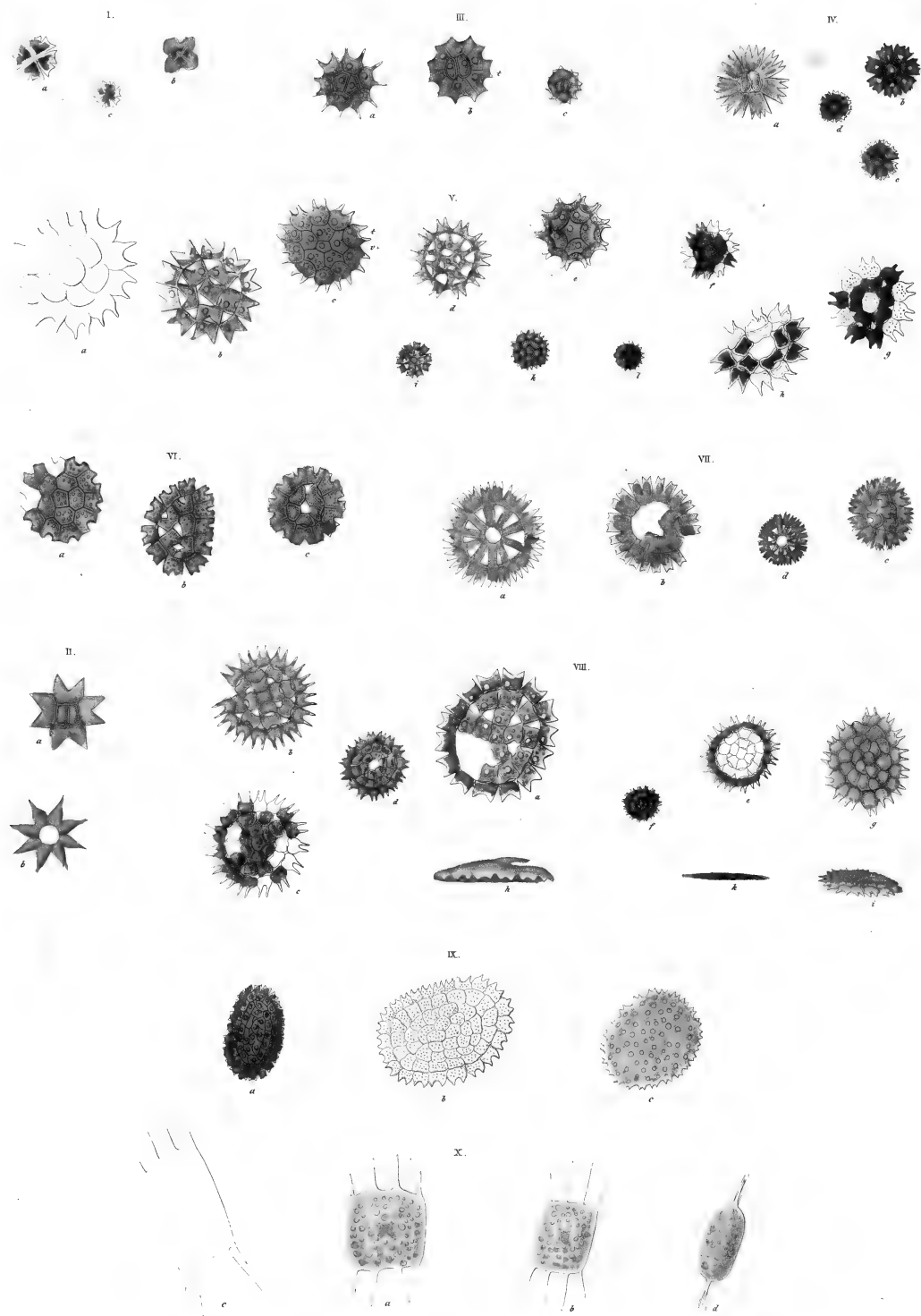
I. *P. operculata*. 148. II. *G. lineata*. 150. III. *G. nummuloides*. 152. IV. *G. varians*. 156. V. *G. moniliformis*. 154. VI. *G. aurichalcea*. 144. VII. *G. ferruginea*. 1000. VIII. *D. Swartzii*. 148.

IX. *D. orbiculare*. 148. X. *D. hexaceros*. 148. XI. *D. bidens*. 148. XII. *D. aculeatum*. 148. XIII. *ST. dilatatum*. 148. XIV. *ST. paradoxum*. 148. XV. *P. margaritacea*. 148.

XVI. *A. quadricaudatus*. 148. XVII. *A. pectinatus*. 148. XVIII. *A. convergens*. 148. XIX. *A. acutus*. 148. XX. *T. moniliformis*. 144. XXI. *T. filiformis*. 148. XXII. *X. hirsutum*. 150.

XXIII. *X. aculeatum*. 148. XXIV. *X. fusciculatum*. 148. XXV. *X. fuscicatum*. 148. XXVI. *X. difforme*. 150.

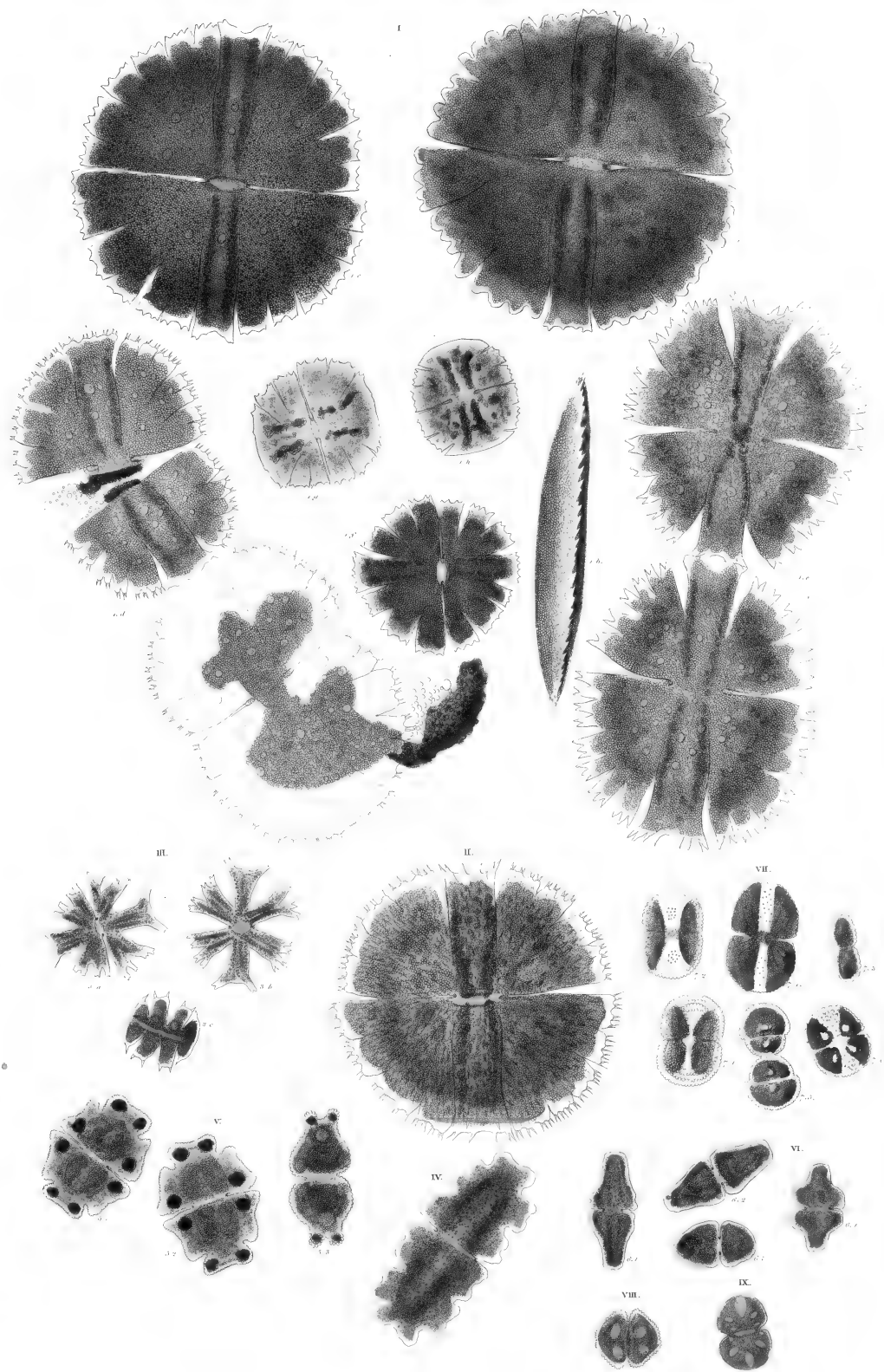
**BLANK
PAGE**



I. IX MICRASTERIAS, X MICROTHECA.

I. *M. Tetras* - $\frac{1}{500}$ ". II. *M. Napoleonis* - $\frac{1}{500}$ ". III. *M. heractis* - $\frac{1}{500}$ ". IV. *M. heptactis* - $\frac{1}{500}$ ". V. *M. Boryana* - $\frac{1}{500}$ ".
 VI. *M. angulosa* - $\frac{1}{500}$ ". VII. *M. Rotula* - $\frac{1}{500}$ ". VIII. *M. tricyclia* - $\frac{1}{500}$ ". IX. *M. elliptica* - $\frac{1}{500}$ ". X. *M. octoceras* - $\frac{1}{500}$ ".

**BLANK
PAGE**



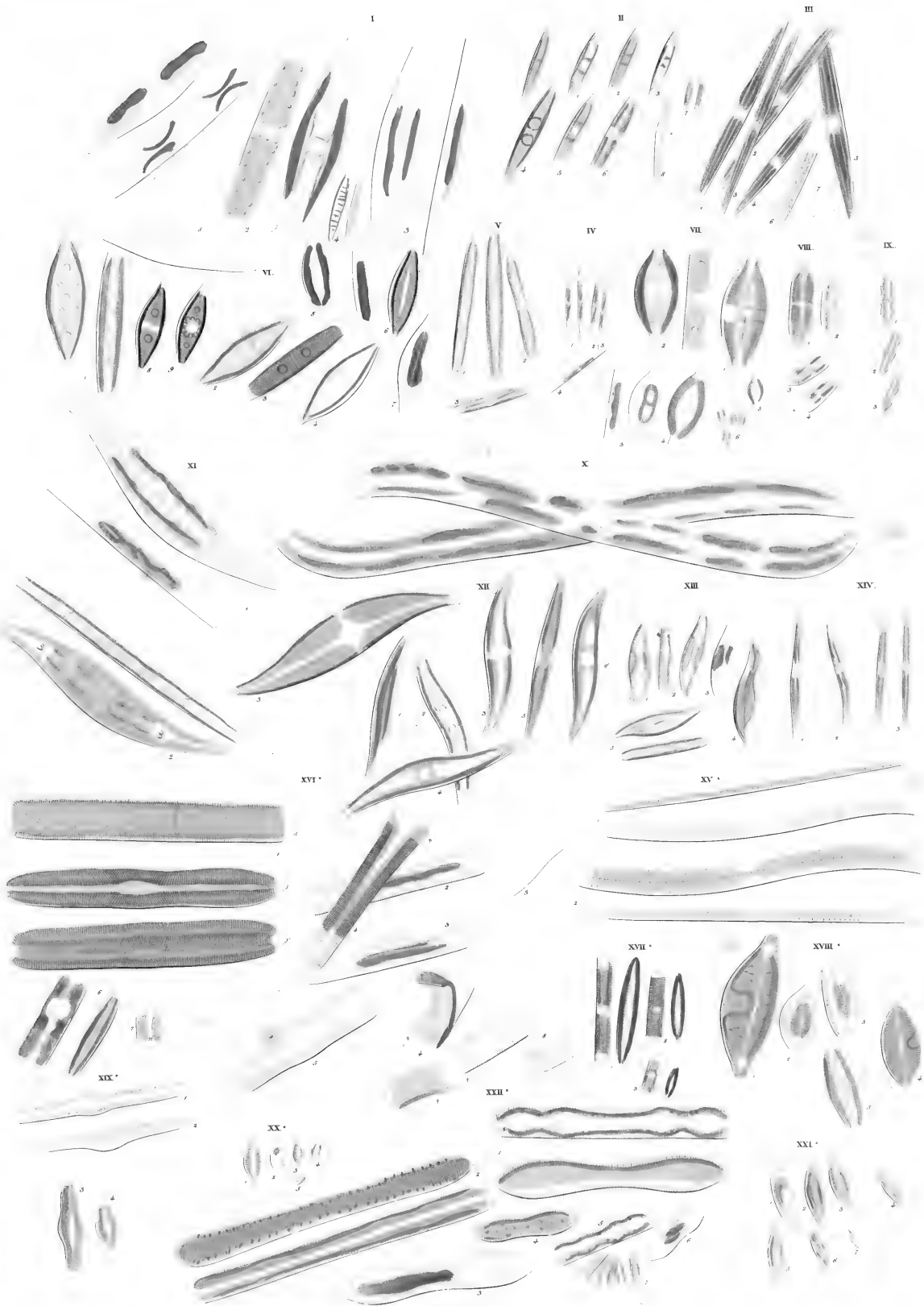
EUASTRUM.

- I. *E. Rota* $\frac{1}{60}$ II. *E. aculeatum* $\frac{1}{2}$ III. *E. Crux melitensis* $\frac{1}{60}$ IV. *E. Pecten* $\frac{1}{60}$ V. *E. verrucosum* $\frac{1}{24}$
 VI. *E. ansatum* $\frac{1}{60}$ VII. *E. margaritifera* $\frac{1}{24}$ VIII. *E. angulosum* $\frac{1}{60}$ IX. *E. integerrimum* $\frac{1}{40}$

phot. v. (Thwaites)

phot. v. C.E. Webb

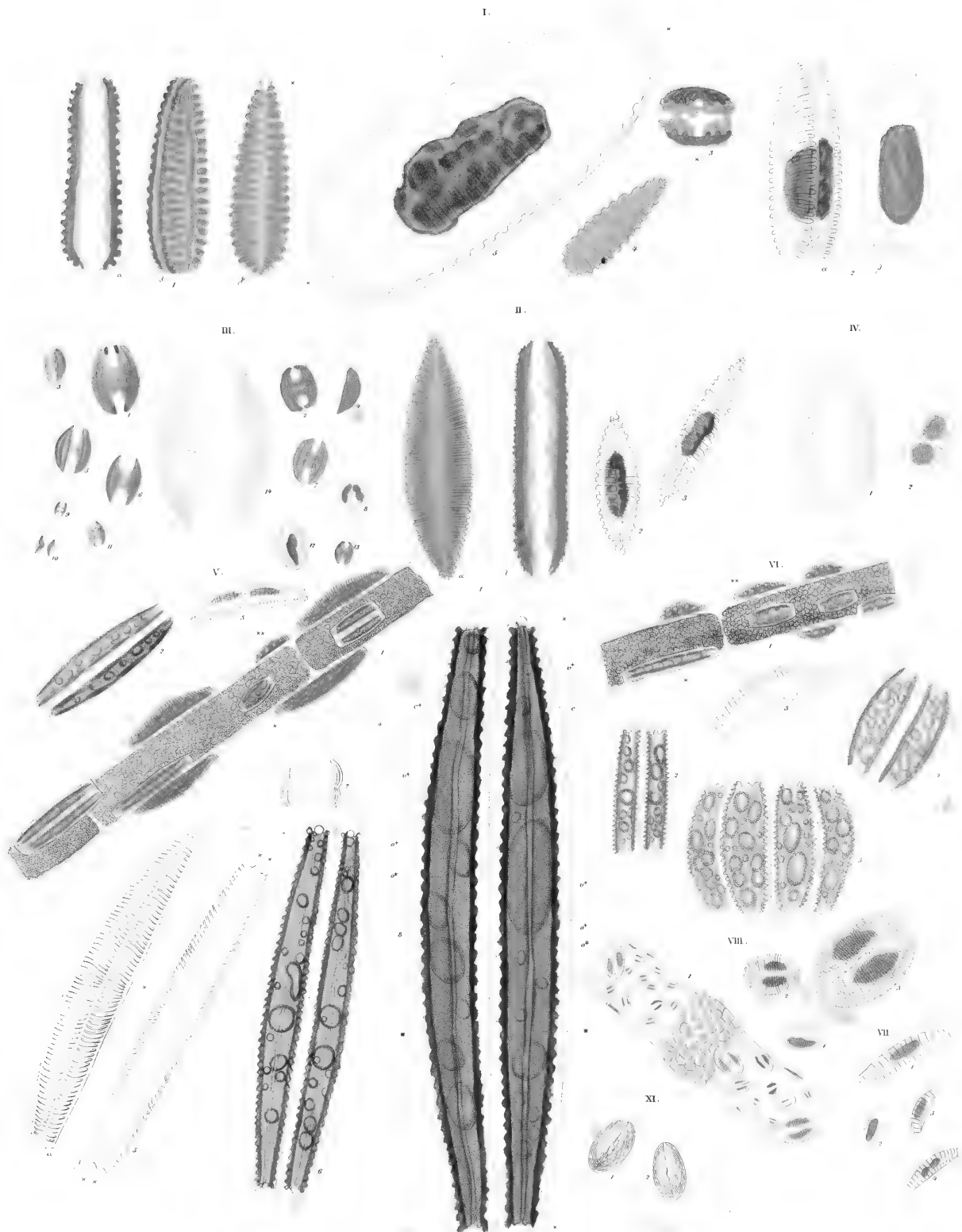
**BLANK
PAGE**



NAVICULA

I. *N. Phoenicenteron* $\frac{1}{16}$ " II. *N. gracilis* $\frac{1}{32}$ " III. *N. pellucida* $\frac{1}{16}$ " IV. *N. Acus* $\frac{1}{40}$ " V. *N. umbonata* $\frac{1}{32}$ " VI. *N. fulva* $\frac{1}{16}$ " VII. *N. amphibaena* $\frac{1}{16}$ "
 VIII. *N. platystoma* $\frac{1}{32}$ " IX. *N. nodosa* $\frac{1}{32}$ " X. *N. holtica* $\frac{1}{16}$ " XI. *N. hippocampus* $\frac{1}{16}$ " XII. *N. sigma* $\frac{1}{16}$ " XIII. *N. scalprum* $\frac{1}{16}$ " XIV. *N. curvula* $\frac{1}{32}$ " XV. *N. stigma*
dea $\frac{1}{32}$ " XVI. *N. viridis* $\frac{1}{16}$ " XVII. *N. viridula* $\frac{1}{32}$ " XVIII. *N. inaequalis* $\frac{1}{16}$ " XIX. *N. gibba* $\frac{1}{32}$ " XX. *N. capitata* $\frac{1}{40}$ " XXI. *N. lanceolata* $\frac{1}{16}$ " XXII. *N. librile* $\frac{1}{16}$ "

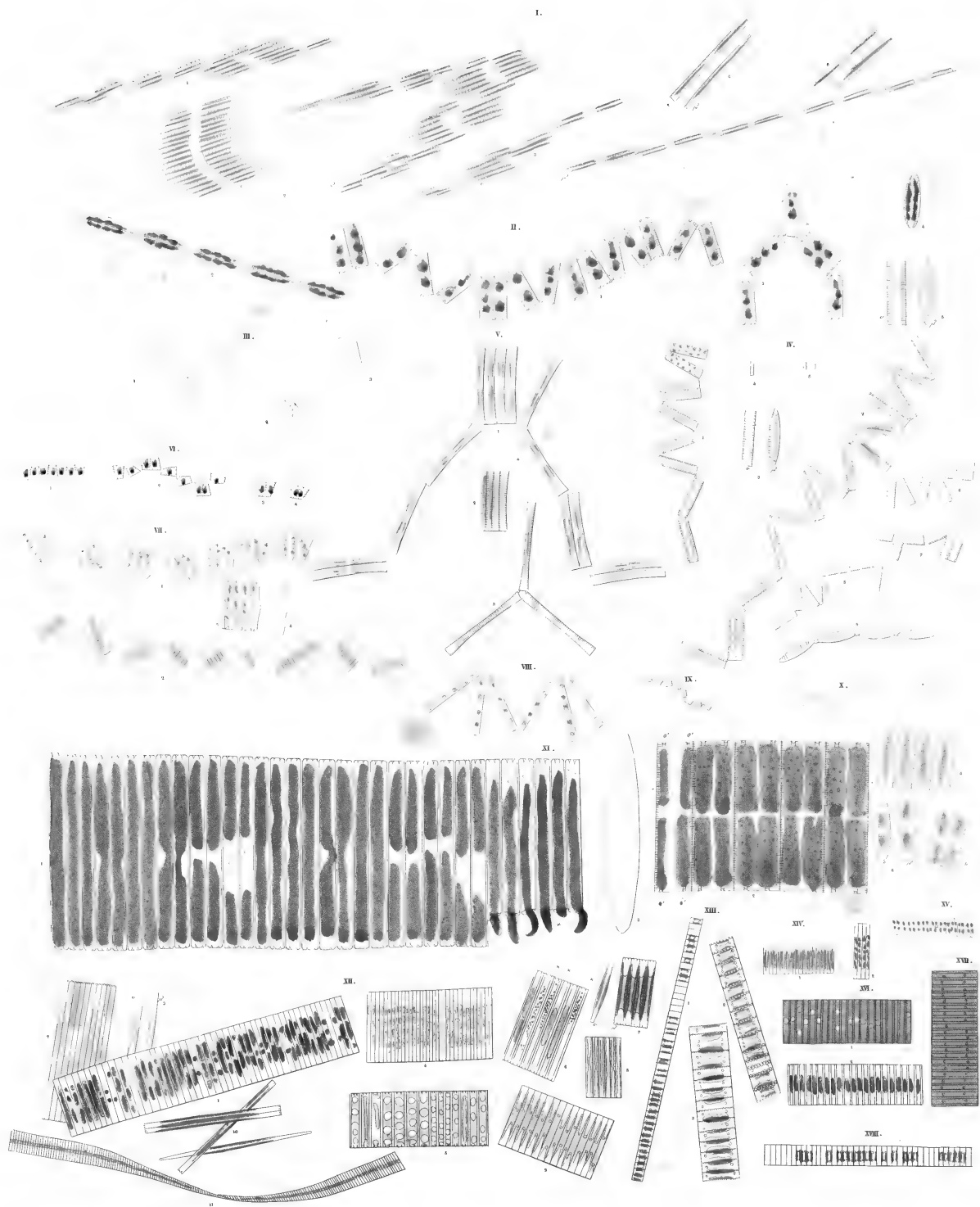
**BLANK
PAGE**



I VII. XAVICULA. VIII. IX. COCCONEIS.

I. *N. splendida* - $\frac{1}{50}$ " II. *N. bifrons* - $\frac{1}{50}$ " III. *N. Amphora* - $\frac{1}{50}$ " IV. *N. lineolata* - $\frac{1}{50}$ " V. *N. turgida* - $\frac{1}{50}$ "
 VI. *N. Westermanni* - $\frac{1}{50}$ " VII. *N. Zebra* - $\frac{1}{50}$ " VIII. *C. Scutellum* - $\frac{1}{50}$ " IX. *C. undulata* - $\frac{1}{50}$ "

**BLANK
PAGE**



I X. BACILLARIA. XI XVIII. FRAGILARIA.

I. *B. paradoxa* $\frac{1}{200}$ II. *B. vulgaris* $\frac{1}{500}$ III. *B. Cleopatrae* $\frac{1}{400}$ IV. *B. pectinatis* $\frac{1}{500}$ V. *B. elongata* $\frac{1}{200}$ VI. *B. cuneata* $\frac{1}{500}$
 VII. *B. tabellaria* $\frac{1}{500}$ VIII. *B. variata* $\frac{1}{500}$ IX. *B. flocculosa* $\frac{1}{200}$ X. *B. Ptolemaei* $\frac{1}{500}$ XI. *F. grandis* $\frac{1}{120}$ XII. *F. rhabdosoma* $\frac{1}{100}$
 XIII. *F. turgidula* $\frac{1}{400}$ XIV. *F. multipunctata* $\frac{1}{240}$ XV. *F. bipunctata* $\frac{1}{400}$ XVI. *F. angusta* $\frac{1}{480}$ XVII. *F. scutaria* $\frac{1}{480}$ XVIII. *F. diopthalma* $\frac{1}{500}$

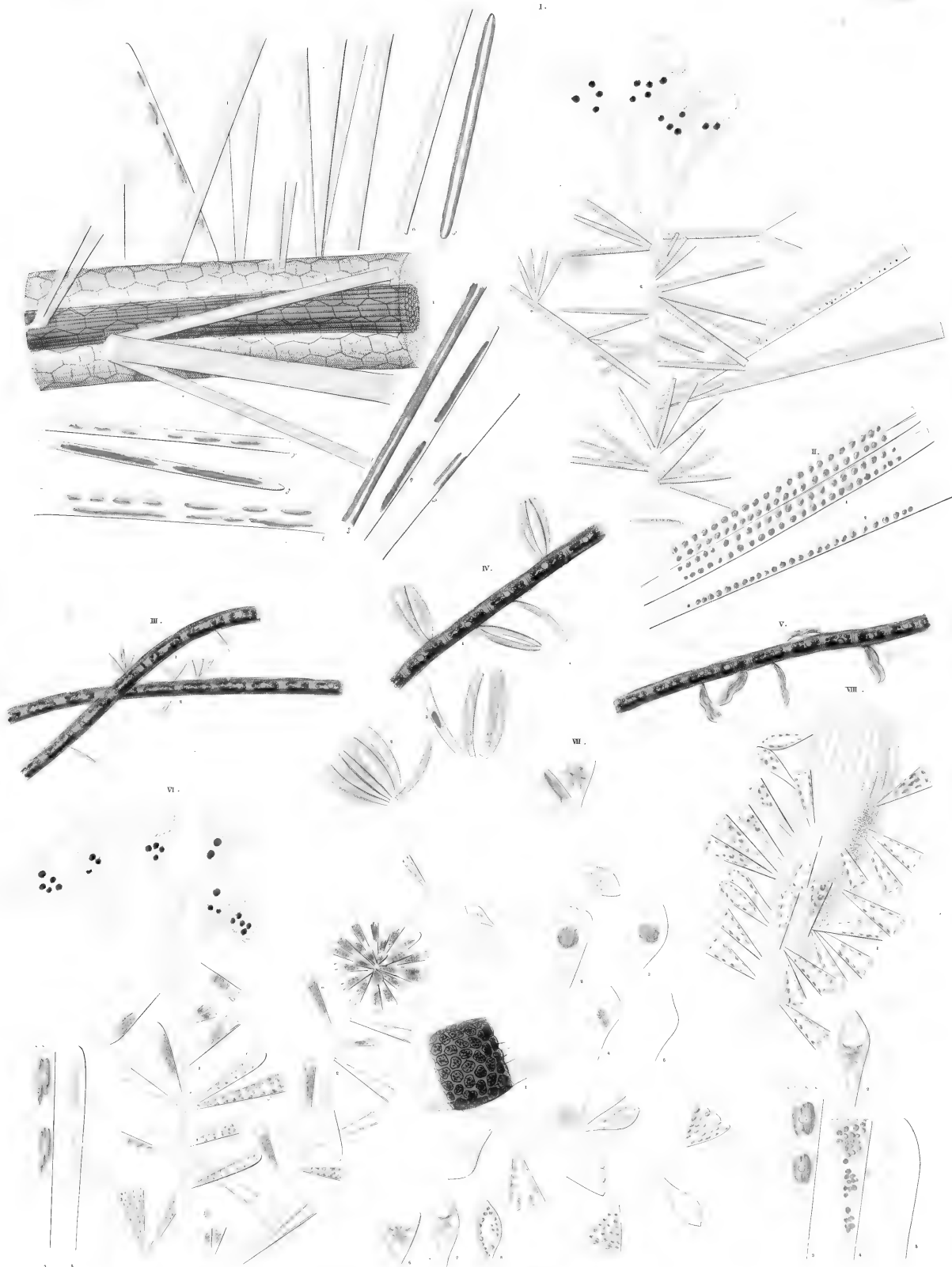
**BLANK
PAGE**



I. FRAGILARIA II. MERIDION III. ODONTELLA V. ISTHMLA.

I. *F. pectinulis* $\frac{1}{36}$; II. *M. vernale* $\frac{1}{20}$; III. *M. ? panduriforme* $\frac{1}{36}$; IV. *O. Desmidiūm* $\frac{1}{38}$;
V. *L. obliqua* $\frac{1}{8}$; VI. *L. teneris* $\frac{1}{5}$.

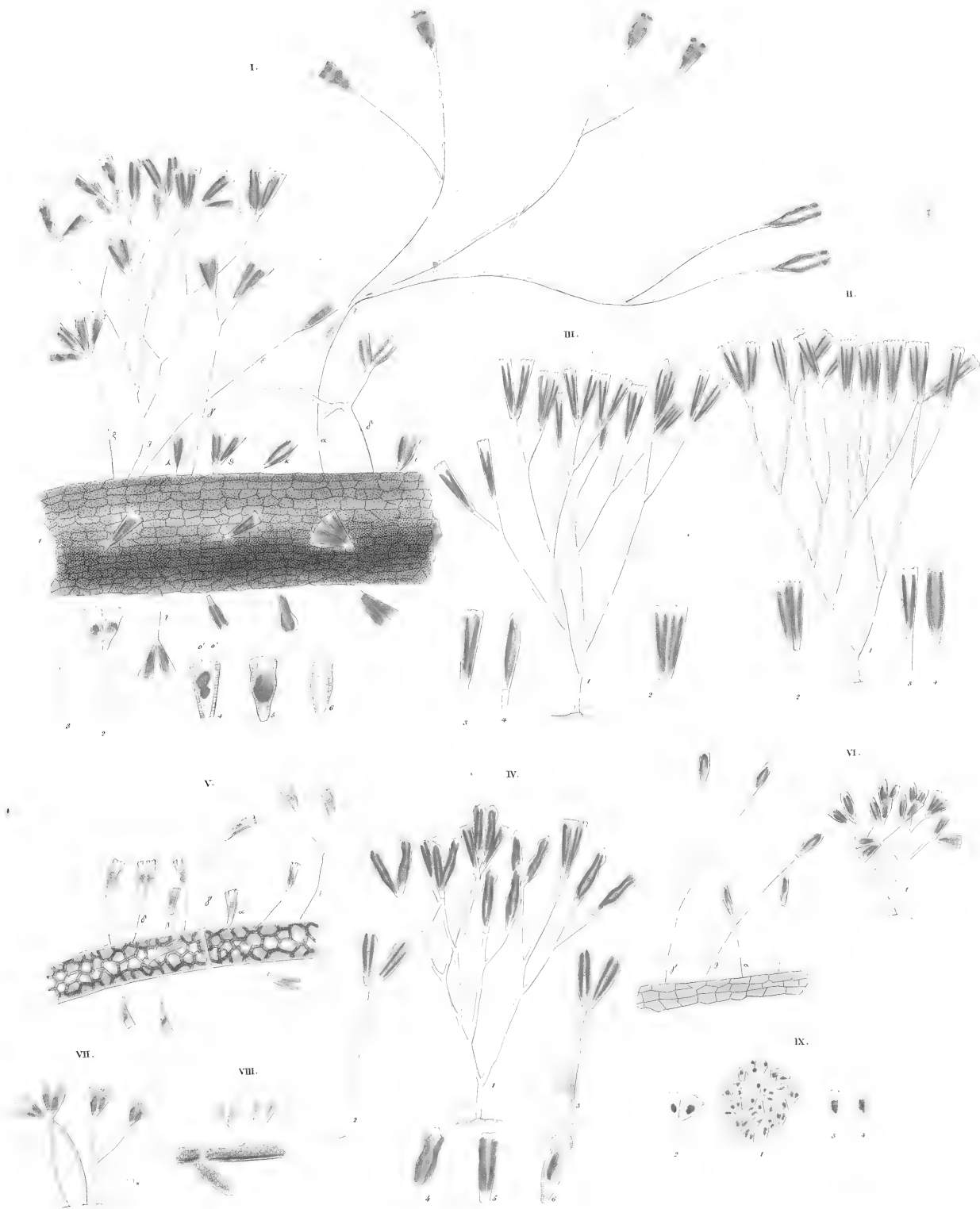
**BLANK
PAGE**



I-V. SYNEDRA. VI. VIII. PODOSPHENIA.

I. *S. Ulna* $\frac{1}{2}$ II. *S. Gaillonii* $\frac{1}{10}$ III. *S. fasciculata* $\frac{1}{12}$ IV. *S. lunaris* $\frac{1}{36}$ V. *S. bilunaris* $\frac{1}{63}$ VI. *P. gracilis* $\frac{1}{12}$
 VII. *P. abbreviata* $\frac{1}{20}$ VIII. *P. cuneata* $\frac{1}{12}$

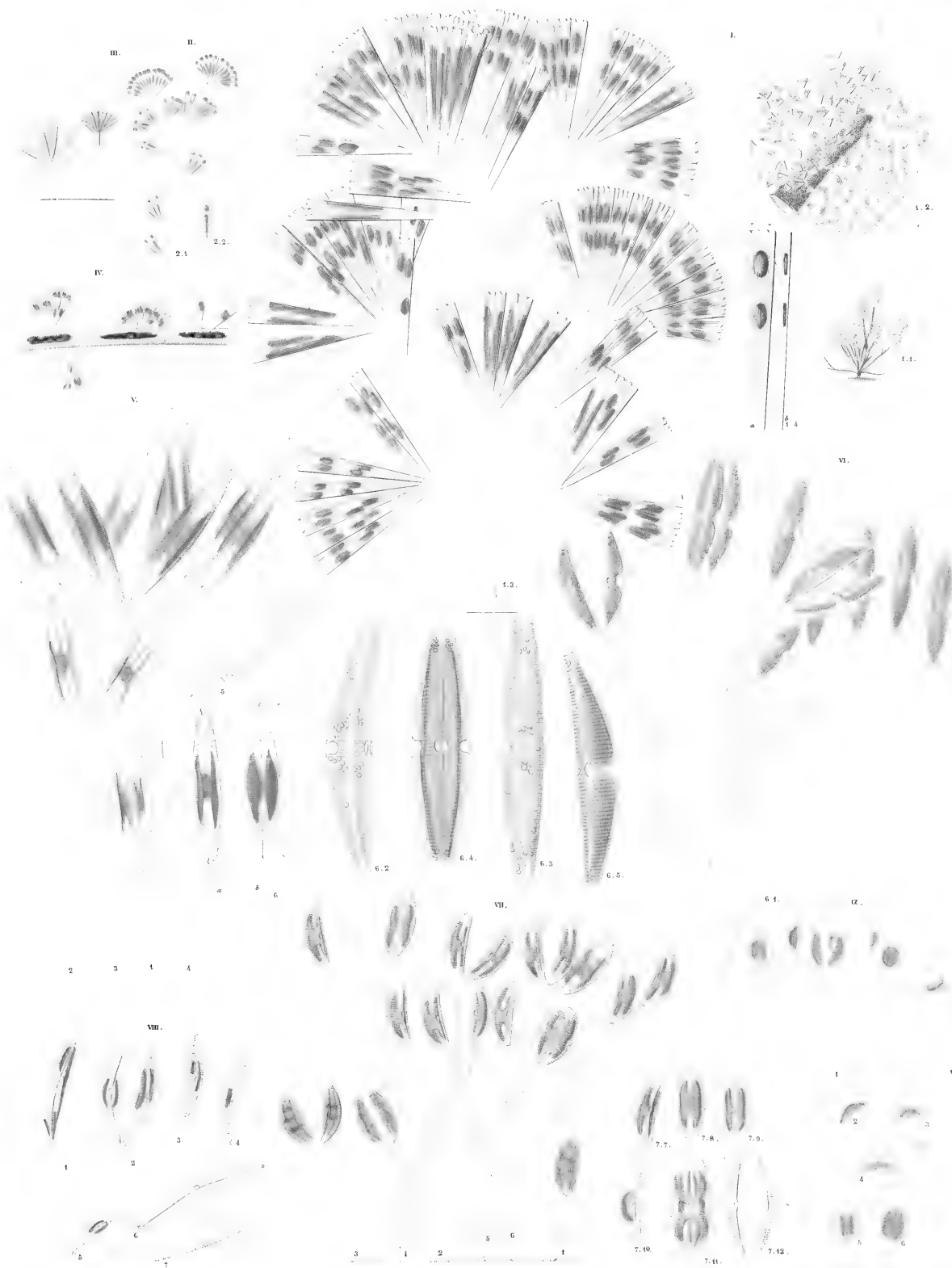
**BLANK
PAGE**



GOMPHONEMA.

I. *G. truncatum*. - II. *G. capitatum*. - III. *G. gracile*. - IV. *G. acuminatum*. - V. *G. minutissimum*. - VI. *G. clavatum*. - VII. *G. rotundatum*. - VIII. *G. discolor*. - IX. *G. olivaceum*.

**BLANK
PAGE**

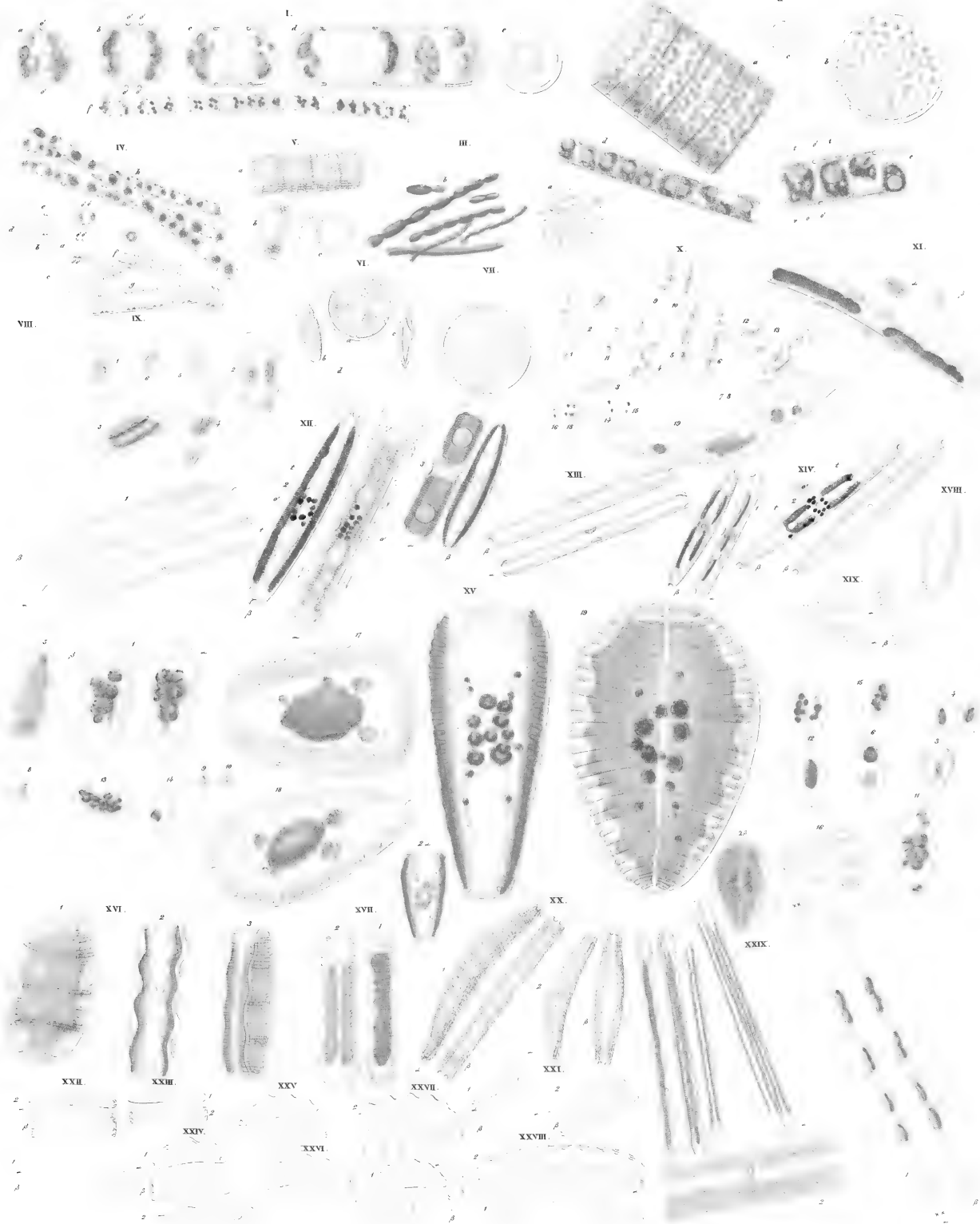


I-IV. ECHINELLA, V-IX. COCCONEIS.

I. *E. flabellata* $\frac{1}{10}$ " II. *E. splendida* $\frac{1}{18}$ " III. *E. abbreviata* $\frac{1}{96}$ " IV. *E. capitata* $\frac{1}{48}$ " V. *C. Borekii* $\frac{1}{18}$ "
 VI. *C. lanceolatum* $\frac{1}{10}$ " VII. *C. Cistula* $\frac{1}{36}$ " VIII. *C. cymbiforme* $\frac{1}{18}$ " IX. *C. gibbum* $\frac{1}{40}$ "

**BLANK
PAGE**

**BLANK
PAGE**



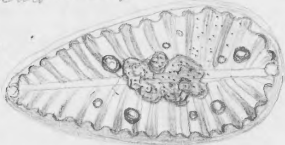
I. V. GALLIONELLA. VI. VII. ACTINOCYCLUS. VIII. XXVIII. NAVICULA. XI. COCCONEIS. XIX. XXVIII. EUNOTIA. XXIX. SYNEDRA.

I. G. nummuloides. 1/2 - II. G. varians. 1/2 - III. G. ferruginea. 1/2 - IV. G. distans. 1/2 - V. G. sulcata. 1/2 - VI. A. senarius. 1/2 - VII. A. octonarius. 1/2 - VIII. N. Trochus. 1/2 - IX. N. quadricostata. 1/2 - X. N. Arcus. 1/2 - XI. C. Pediculus. 1/2 - XII. N. viridis. 1/2 - XIII. N. macilenta. 1/2 - XIV. N. viridula. 1/2 - XV. N. striatula. 1/2 - XVI. N. undulata. 1/2 - XVII. N. constricta. 1/2 - XVIII. N. suecica. 1/2 - XIX. F. Zebra. 1/2 - XX. F. granulata. 1/2 - XXI. F. Faba. 1/2 - XXII. F. Arcus. 1/2 - XXIII. F. Diodon. 1/2 - XXIV. F. Triodon. 1/2 - XXV. F. Tetraodon. 1/2 - XXVI. F. Pentodon. 1/2 - XXVII. F. Duodena. 1/2 - XXVIII. E. Serra. 1/2 - XXIX. S. capitata. 1/2

**BLANK
PAGE**

Sketch of *Spirhella endochone*
popping into *microgonidia*!

Striatula Eh.?



May 3 / 1859
From Scheidner's Swamp
Columbus Ohio J.S.

